

ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 22 This photo was taken inside the sand filter building. The water flowing through the wall opening didn't go through the filter into the ultraviolet light disinfection channel. The flow goes directly to the facility outfall. This is a bypass since the disinfection process wasn't included as part of the treatment process.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 23 This photo was taken from the paved drying beds looking north. The building is the laboratory/control building. The elevated 500 gallon diesel fuel storage tank does not have any secondary containment.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 24 This photo was taken looking east from near the laboratory/control building. Located in the foreground are two paved drying beds. Bed drainage would be through the grassy strip in the middle of the bed. The final effluent sand filter building is located in the background.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 25 This photo was taken looking north from the parking area near the raw sewage pump building. The 300 gallon gasoline storage tank does not have secondary containment.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

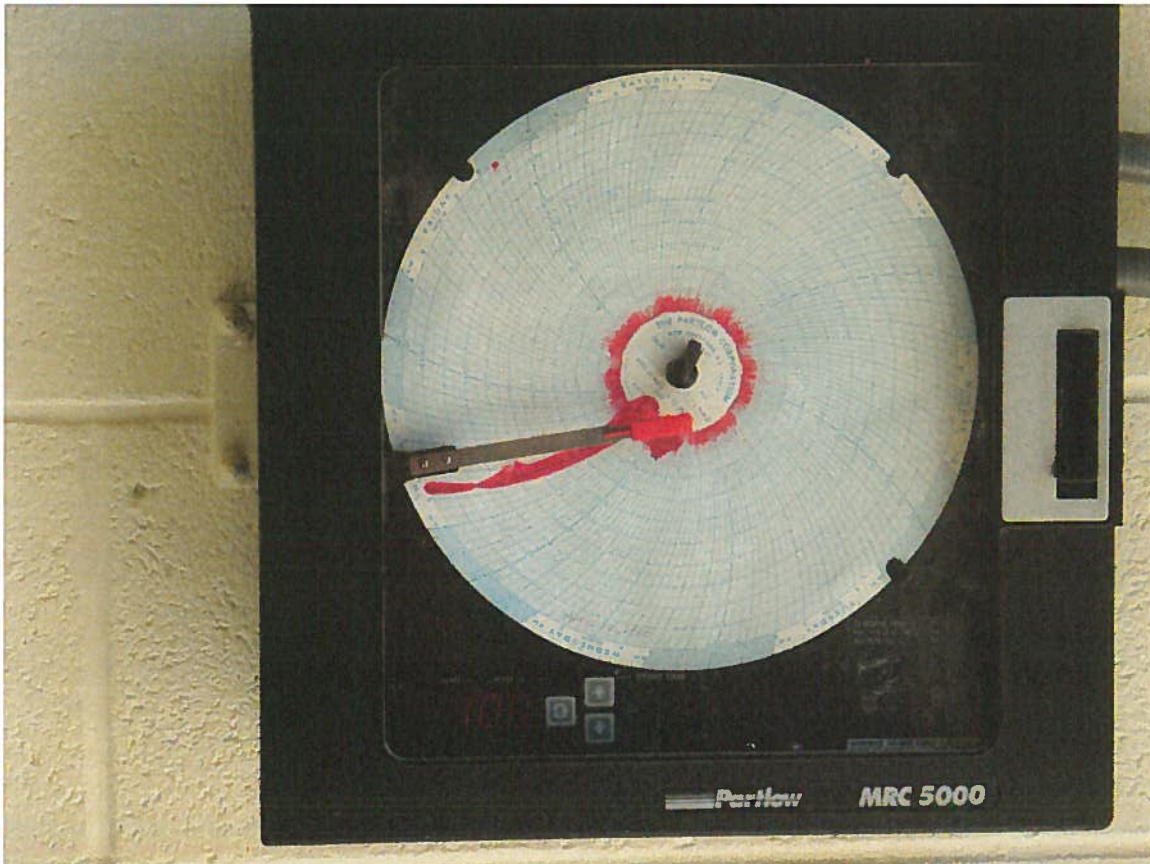
Photo no. 26 This photo was taken looking northwest from the parking area just southwest of the raw sewage pump building. Shown is a portable generator that is not used.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 27 This photo shows one of several all alike flow meters used to measure flow in the plant. These meters are relatively new and should be easy to calibrate and maintain.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 28 This photo was not used.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 29 This photo was taken inside the raw sewage pump building. Shown is one of the suction lift sewage pumps. Note the missing cover over the drive belt. This is a safety hazard. This unit also has a propane operated standby generator for firm pumping capacity in the event of a power failure.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 30 This photo was taken inside the raw sewage pump building. Shown are the suction lift sewage pumps. This building also included a chemical storage tank and feed equipment that has never been used.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 31 This photo shows the city's 2200 gallon liquid sludge haul truck. It is parked on the northwest side of the laboratory/control building. Much of the sludge hauled is done by a contract employee using this truck.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 32 This photo shows the inside of the laboratory/control building. Commonly used laboratory testing equipment is visible. All but the dissolved oxygen meter (located underneath the time card clock) appeared to be functional.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 33 This photo shows the inside of the laboratory/control building. Commonly used laboratory testing equipment is visible. The chemicals stored in the upper cabinets were out of date (expired).



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 34 This photo shows a storage room located in the laboratory/control building. This room lacked organization and the floor clutter made moving around in the room very difficult.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 37 This photo looks northwest and shows the old oxidation ditch which was to be used as an aerobic digester. The design intent was to run the aerators continuously. Because of odor complaints, the rotors are not normally operated.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 38 This photo was taken from the old sludge storage tank looking north. It shows the two old final clarifiers that were intended to be used as sludge thickening tanks. They are used as such with the water decanted manually using a pump. The sludge is pumped from these tanks into the liquid sludge haul truck which can be seen at the upper right.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 35 This photo looking south shows the location of the last manhole before the Lake Taneycomo submerged outfall. This would be the location of a visible sign designating the outfall as required by the NPDES permit.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

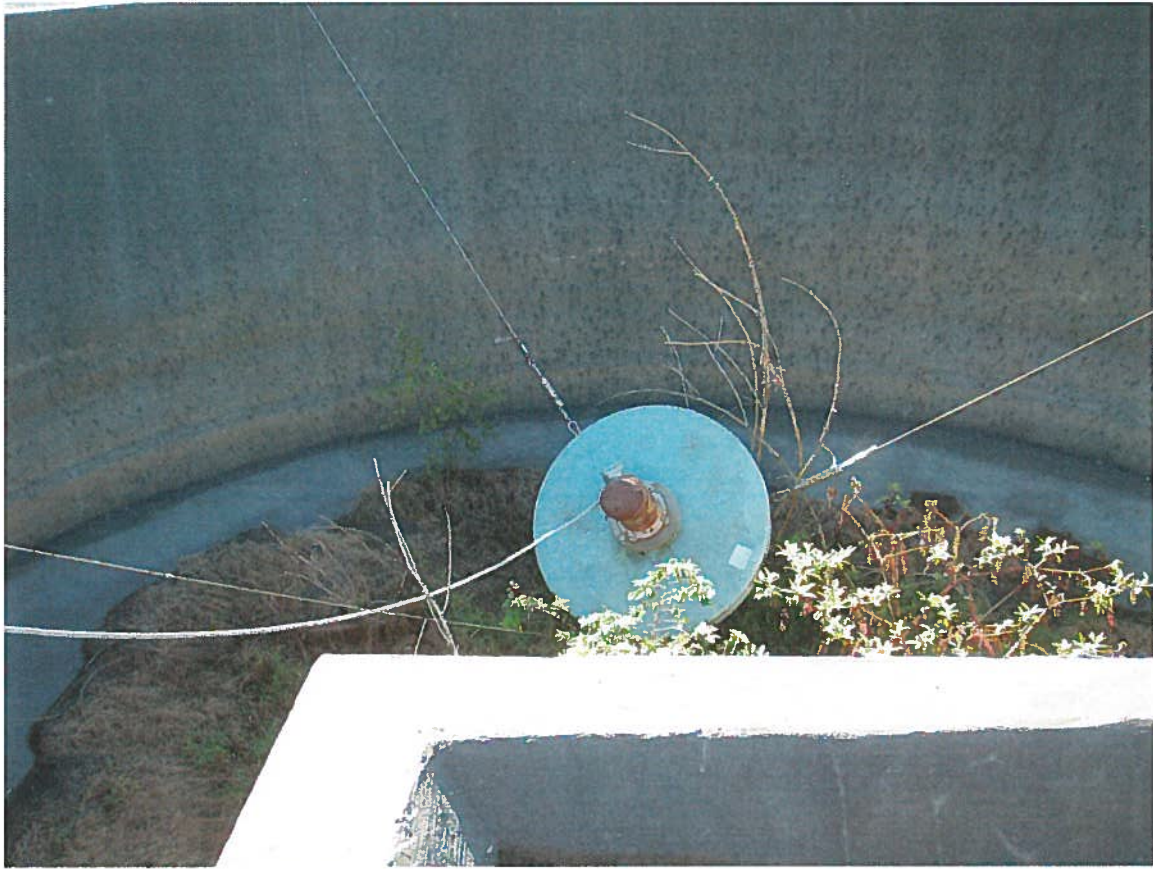
Photo no. 36 This photo shows the location of the last manhole before the Lake Taneycomo outfall. This would be the required location of a visible sign designating the outfall as required by the NPDES permit. Instead, the location is marked with an "001" indicating outfall 001 which has no real meaning to local citizens.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

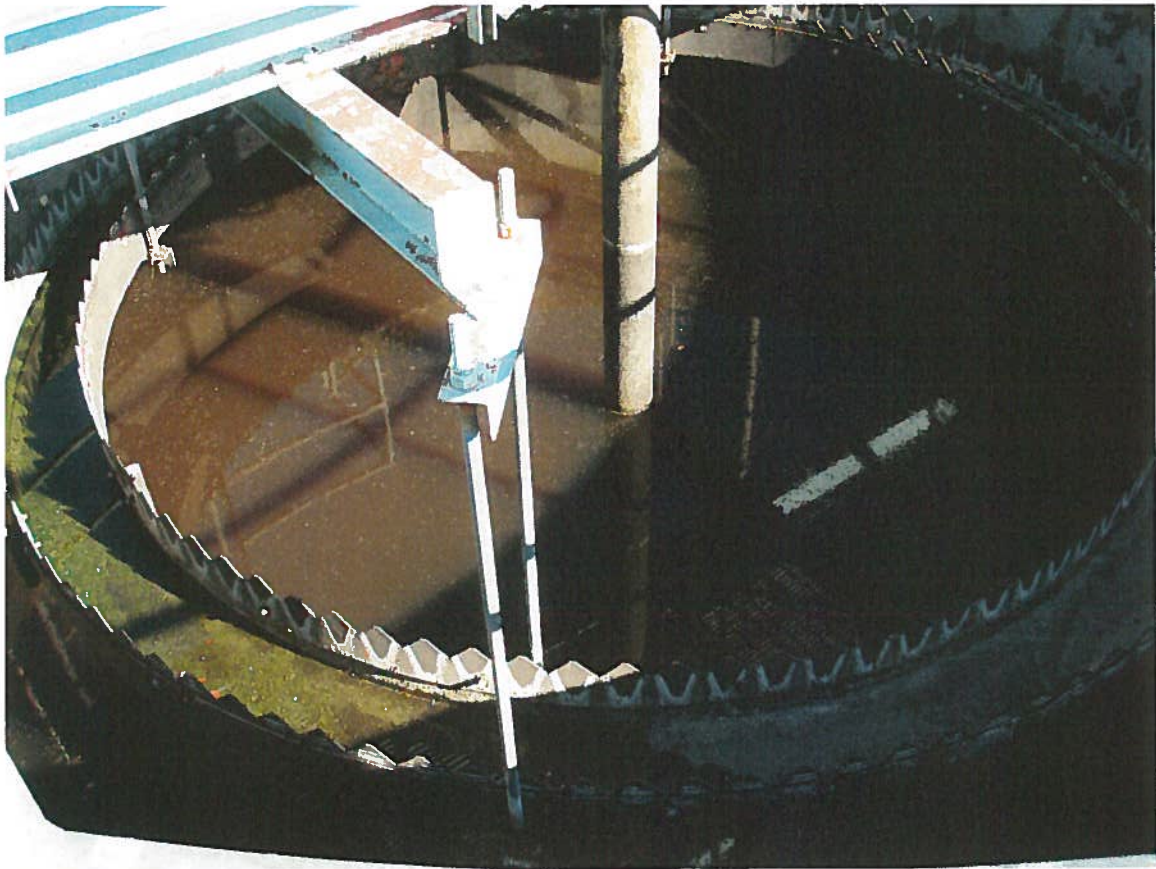
Photo no. 39 This photo was taken from the old sludge storage tank looking north. It shows one of the old final clarifiers in the foreground and the liquid sludge hauling truck in the upper center of the photo. The truck applies the sludge by spray bar.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 40 This photo was taken from the top of the old sludge storage tank. The vegetation growing in the bottom of the tank is good evidence that the tank is not used for gravity thickened sludge storage. The floating aerator is visible in the bottom of the tank.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 41 This photo was taken from the top of one of the old final clarifiers. The visual appearance of the clarifier suggests that it is not being used as a gravity sludge thickening unit but more as a storage basin.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 42 This photo was taken looking northwest at one of the old final clarifiers.



ROCKAWAY BEACH WWTF
Rockaway Beach, MO.

September 13, 2007

Photo no. 43 This photo was taken from near the new treatment tanks looking west at the old sludge holding basin. The access stairs have grown up in vines that limit access to the unit. Access is not an operator concern since he doesn't use the tank for sludge storage.